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Table No. 5.

Patient—	First 10 tests.					Last 10 tests.				
	Number 4+.	Number 3+.	Number 2+.	Number 1+.	Number nega- tive.	Number 4+.	Number 3+.	Number 2+.	Number 1+.	Number nega- tive.
No. 68.....	10	0	0	0	0	10	0	0	0	0
No. 137.....	10	0	0	0	0	9	0	0	0	1
No. 150.....	10	0	0	0	0	1	0	0	0	9
No. 151.....	10	0	0	0	0	7	0	0	2	1
No. 167.....	8	0	0	0	2	10	0	0	0	0
No. 168.....	1	0	0	0	9	0	0	2	0	8
No. 171.....	7	2	0	0	1	10	0	0	0	0
No. 173.....	10	0	0	0	0	10	0	0	0	0
No. 175.....	10	0	0	0	0	4	6	0	0	0
No. 177.....	3	0	0	2	5	1	0	2	3	4
No. 178.....	2	3	0	5	0	0	0	4	1	5
No. 179.....	10	0	0	0	0	10	0	0	0	0
No. 182.....	10	0	0	0	0	10	0	0	0	0
No. 183.....	9	1	0	0	0	5	4	1	0	0
No. 186.....	9	0	1	0	0	0	0	0	0	10
No. 187.....	9	1	0	0	0	1	4	5	0	0
No. 188.....	10	0	0	0	0	10	0	0	0	0
No. 189.....	6	0	0	0	4	0	0	0	0	10
No. 190.....	0	1	5	2	2	0	0	1	9	0
No. 191.....	9	1	0	0	0	10	0	0	0	0
No. 192.....	6	2	2	0	0	0	0	2	0	8
No. 194.....	4	0	0	0	6	0	0	0	4	6
No. 196.....	0	1	3	3	3	9	0	1	0	0
No. 199.....	6	1	1	2	0	4	1	2	1	2
No. 201.....	6	0	1	0	3	10	0	0	0	0
No. 202.....	3	1	1	1	4	9	1	0	0	0
No. 204.....	4	2	4	0	0	0	0	1	5	4
No. 205.....	4	2	3	0	1	10	0	0	0	0
No. 207.....	0	0	2	0	8	0	0	1	7	2
No. 208.....	4	0	2	4	0	5	2	2	1	0
No. 209.....	4	2	0	0	4	0	1	1	3	5
No. 211.....	4	0	0	0	6	7	0	0	1	2
No. 213.....	10	0	0	0	0	10	0	0	0	0
No. 214.....	7	0	3	0	0	9	0	0	0	1
No. 215.....	0	0	0	2	8	2	0	0	1	7
No. 218.....	8	2	0	0	0	1	3	0	3	3
No. 221.....	0	0	2	4	4	4	2	1	1	2
No. 222.....	4	4	0	1	1	3	3	0	4	0
No. 223.....	6	1	0	3	0	0	0	5	5	0
No. 224.....	7	1	1	1	0	4	6	0	0	0
No. 225.....	10	0	0	0	0	10	0	0	0	0
Total.....	250	28	31	30	71	205	33	31	51	90

This table shows that of the 410 first tests 339 were positive, while of the last 410 tests only 320 were positive, and of the first 339 positive only 8.8 per cent were 1+, while of the last 320 positive 15.9 per cent were 1+.

This would indicate that as convalescence is established the presence of indicanuria becomes lessened.

The presence of indicanuria in 96.4 per cent of these patients would suggest this symptom as a possible aid in diagnosis in doubtful cases provided repeated tests were made.

PLAGUE-PREVENTION WORK.

CALIFORNIA.

The following reports of plague-prevention work in California were received from Surg. Boggess, of the United States Public Health Service, in charge of the work:

WEEK ENDED APR. 22, 1916.

SAN FRANCISCO, CAL.

RAT PROOFING.

New buildings:	
Inspections of work under construction.	173
Basements concreted (square feet, 26,451).....	22
Floors concreted (square feet, 14,475)...	12
Yards, passageways, etc. (square feet, 27,320).....	67
Total area concrete laid (square feet)...	68,246
Class A, B, and C (fireproof) buildings:	
Inspections made.....	149
Roof and basement ventilators, etc., screened.....	565
Wire screening used (square feet).....	2,940
Openings around pipes, etc., closed with cement.....	1,565
Sidewalk lens lights replaced.....	1,680
Old buildings:	
Inspections made.....	419
Wooden floors removed.....	58
Yards and passageways, planking removed.....	32
New foundation walls installed (cubic feet).....	5,380
Concrete floors installed (square feet, 28,324).....	24
Basements concreted (square feet, 9,460).....	18
Yards and passageways, etc., concreted (square feet, 21,171).....	73
Total area of concrete laid (square feet)...	58,855
Floors rat proofed with wire cloth (square feet, 1,500).....	1
Buildings razed.....	38
New garbage cans stamped "Approved"....	200
Nuisances abated.....	295

OPERATIONS ON THE WATER FRONT.

Vessels inspected for rat guards.....	18
Reinspections made on vessels.....	16
New rat guards procured.....	12
Defective rat guards repaired.....	10
Rats trapped on wharves and water front..	45
Rats trapped on vessels.....	104
Traps set on wharves and water front.....	135
Traps set on vessels.....	216
Vessels trapped on.....	15
Poisons placed on water front (pieces).....	3,600
Poisons placed within Panama-Pacific International Exposition ground (pieces)...	46,000
Bait used on water front and vessels, bacon (pounds).....	6
Bread used in poisoning water front (loaves).	9
Poison used on water front (pounds).....	3

RATS COLLECTED AND EXAMINED FOR PLAGUE.

San Francisco:	
Collected.....	514
Examined.....	403
Found infected.....	Ncre.

RATS COLLECTED AND EXAMINED FOR PLAGUE—Continued.

Oakland:	
Collected.....	18
Examined.....	18
Found infected.....	None.

RATS IDENTIFIED.

Mus norvegicus.....	215
Mus rattus.....	94
Mus alexandrinus.....	143
Mus musculus.....	62

SQUIRRELS COLLECTED AND EXAMINED FOR PLAGUE.

County.	Collected.	Examined.	Infected.
Alameda.....	112	112	1
Contra Costa.....	612	612	0
Monterey.....	388	388	3
Merced.....	126	126	0
San Benito.....	229	229	1
Santa Clara.....	86	86	0
San Mateo.....	25	25	0
Santa Cruz.....	12	12	0
Total.....	1,590	1,590	5

OTHER ANIMALS COLLECTED AND EXAMINED.

Merced County.....	10 rabbits.
San Benito County.....	3 rabbits.
Monterey County.....	1 rabbit.
Total.....	14 rabbits.

One rabbit from Monterey County found to be infected with *B. tularensis*, shot Apr. 12.

RANCHES INSPECTED AND HUNTED OVER.

Alameda County.....	27
Contra Costa County.....	48
Monterey County.....	31
San Benito County.....	28
San Mateo County.....	8
Santa Clara County.....	37
Merced County.....	15
Santa Cruz County.....	1
Total.....	195

PLAGUE-INFECTED SQUIRRELS.

Monterey County:	
Shot Apr. 12, 1916—	
Otto Olsen ranch, 7 miles southwest of Soledad, sec. 30, T. 18 S., R. 6 E....	2
Johnson Ranch, 15 miles south of Salinas, rancho Los Tulareitos, T. 17 S., R. 3 E.....	1
Contra Costa County:	
Shot Apr. 13, 1916, Griffiths ranch, 8 miles southwest of Antioch, NE. $\frac{1}{4}$ sec. 31, T. 2 N., R. 1 E.....	1
San Benito County:	
Shot Apr. 10, 1916, H. Waters ranch, 3 miles south of Mulberry, NW. $\frac{1}{4}$ sec. 28, T. 15 S., R. 7 E.....	1

WEEK ENDED APR. 29, 1916.

SAN FRANCISCO, CAL.

RAT PROOFING.

New buildings:

Inspections of work under construction..	157
Basements concreted (square feet, 22,135) ..	23
Floors concreted (square feet, 20,770).....	15
Yards, passageways, etc. (square feet, 10,401).....	50
Total area of concrete laid (square feet) ..	53,306

Class A, B, and C (fireproof) buildings:

Inspections made.....	146
Roof and basement ventilators, etc., screened.....	650
Wire screening used (square feet).....	3,420
Openings around pipes, etc., closed with cement.....	1,505
Sidewalk lens lights replaced.....	500

Old buildings:

Inspections made.....	469
Wooden floors removed.....	56
Yards and passageways, planking removed.....	3

SAN FRANCISCO, CAL.—Continued.

RAT PROOFING—continued.

Old buildings—Continued.

New foundation walls installed (cubic feet).....	7,745
Concrete floors installed (square feet, 10,880).....	22
Basements concreted (square feet, 39,120) ..	44
Yards and passageways, etc., concreted (square feet, 15,049).....	69
Total area concrete laid (square feet)....	65,049
Floors rat proofed with wire cloth (square feet, 3,145).....	4
Buildings razed.....	30
New garbage cans stamped approved.....	362
Nuisances abated.....	284

OPERATIONS ON THE WATER FRONT.

Vessels inspected for rat guards.....	19
Reinspections made on vessels.....	23
New rat guards procured.....	15
Defective rat guards repaired.....	13
Vessels on which cargo was inspected.....	1

Amount of cargo inspected and description of same.

Condition.	Rat evidence.
------------	---------------

Steamer Queen from Seattle:

582 cases salmon, milk, apples, cheese, baking powder, and candy	O. K.....	None.
600 sacks flour, bran.....	O. K.....	None.

Rats trapped on wharves and water front...	38
Rats trapped on vessels.....	55
Traps set on wharves and water front.....	135
Traps set on vessels.....	235
Vessels trapped on.....	14
Poisons placed on water front (pieces).....	3,600
Poisons placed within Panama Pacific International Exposition grounds (pieces) ..	41,500
Bait used on water front and vessels, bacon (pounds)	6
Bread used in poisoning water front (loaves) ..	9
Poison used on water front (pounds).....	3

RATS COLLECTED AND EXAMINED FOR PLAGUE.

San Francisco:

Collected.....	461
Examined.....	409
Found infected.....	None.

Oakland:

Collected.....	28
Examined.....	28
Found infected.....	None.

RATS IDENTIFIED.

Mus norvegicus.....	258
Mus musculus.....	35
Mus alexandrinus.....	104
Mus rattus.....	64
Rabbits collected and examined for plague.....	33
Found infected.....	None.

SQUIRRELS COLLECTED AND EXAMINED FOR PLAGUE.

County.	Collected.	Examined.	Infected.
Monterey.....	505	505	3
Merced.....	418	418	(1)
Contra Costa.....	661	661	1
San Benito.....	324	324	2
Alameda.....	186	186	(1)
Stanislaus.....	169	169	(1)
Santa Clara.....	105	105	1
Santa Cruz.....	65	65	(1)
San Mateo.....	42	42	(1)
Total.....	2,475	2,475	7

1 None.

PLAGUE-INFECTED SQUIRRELS.

Monterey County:

Shot Apr. 13, 1916. Peach Tree ranch (San Lorenzo rancho), 13 miles northeast of San Lucas.....	1
Johnson ranch, known as Ford ranch, 10 miles northeast of Salinas (found dead) ..	1
Shot Apr. 18, 1916. J. Girard ranch, 18 miles south of Salinas, Sec. 32, T. 17 S., R. 3 E.....	1

PLAGUE-INFECTED SQUIRRELS—Continued.

San Benito County:	
Shot Apr. 18, 1916. H. Kruse ranch, 4 miles south of Mulberry, Sec. 34, T. 15 S., R. 7 E.....	1
Shot Apr. 20, 1916. D. J. Watson ranch, 3½ miles south of Hollister, rancho San Justo, T. 13 S., R. 5 E.....	1
Contra Costa County:	
Shot Apr. 20, 1916. Tom Silva ranch (Moraga grant), 4 miles southwest of Lafayette.....	1
Santa Clara County:	
Shot Apr. 22, 1916. J. Heinlen ranch in southwest part of Teresa rancho grant, 1½ miles west of Coyote.....	1

RANCHES INSPECTED AND HUNTED OVER.

Alameda County.....	39
Contra Costa County.....	62
Monterey County.....	34
Merced County.....	41
Santa Clara County.....	40
Stanislaus County.....	44
San Benito County.....	30
San Mateo County.....	15
Santa Cruz County.....	11
Total.....	316

RECORD OF PLAGUE INFECTION.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number of rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1903	Oct. 23, 1908	(1)	398 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1903	(1)	126 rats.
Berkeley.....	Aug. 28, 1907	(1)	(1)	(1)
Los Angeles.....	Aug. 11, 1903	(1)	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).....	Sept. 24, 1909	Oct. 17, 1909 ²	July 12, 1915	287 squirrels, 1 wood rat.
Contra Costa.....	July 13, 1915	(1)	Apr. 20, 1916	1,600 squirrels.
Fresno.....	(1)	(1)	Oct. 27, 1911	1 squirrel.
Merced.....	(1)	(1)	July 12, 1911	5 squirrels.
Monterey.....	(1)	(1)	Apr. 18, 1916	33 squirrels.
San Benito.....	June 4, 1913	(1)	Apr. 20, 1916	54 squirrels.
San Joaquin.....	Sept. 18, 1911	(1)	Aug. 26, 1911	18 squirrels.
Santa Clara.....	Aug. 31, 1910	(1)	Apr. 22, 1916	27 squirrels.
San Luis Obispo.....	(1)	(1)	Jan. 29, 1910	1 squirrel.
Santa Cruz.....	(1)	(1)	May 17, 1910	3 squirrels.
Stanislaus.....	(1)	(1)	June 2, 1911	13 squirrels.

¹ None.² Wood rat.

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, Stanislaus, San Benito, Monterey, Santa Clara, San Mateo, Santa Cruz, Merced, Lassen, and Modoc.

LOUISIANA—NEW ORLEANS—PLAGUE ERADICATION.

The following report of plague-eradication work at New Orleans for the week ended May 6, 1916, was received from Surg. Creel, of the United States Public Health Service, in charge of the work:

OUTGOING QUARANTINE.		BUILDINGS RAT PROOFED.	
Vessels fumigated with sulphur.....	13	By elevation.....	178
Vessels fumigated with cyanide gas.....	13	By marginal concrete wall.....	157
Sulphur used (pounds).....	730	By concrete floor and wall.....	153
Cyanide used in cyanide-gas fumigation.....	709	By minor repairs.....	369
Sulphuric acid used in cyanide-gas fumigation (pints).....	1,048	Total buildings rat proofed.....	857
Clean bills of health issued.....	30	Concrete laid (square yards).....	5,612
Foul bills of health issued.....	3	Premises, planking and shed flooring removed.....	96
FIELD OPERATIONS.		Buildings demolished.....	170
Rodents trapped.....	8,303	Total buildings rat proofed to date (abated).....	114,008
Premises inspected.....	7,934	LABORATORY OPERATIONS.	
Notices served.....	662	Rodents received, by species:	
Garbage cans installed.....	33	Mus rattus.....	156
		Mus norvegicus.....	1,349

LABORATORY OPERATIONS—continued.

Rodents received, by species—Continued.	
Mus alexandrinus.....	161
Mus musculus.....	6,605
Wood rats.....	80
Musk rats.....	4
Putrid (included in enumeration of species).....	144
Total rodents received at laboratory.....	8,355
Rodents examined.....	2,205
Number of rats suspected of plague.....	127
Plague rats confirmed.....	None.
Last case of human plague, Sept. 8, 1915.	

LABORATORY OPERATIONS—continued.

Last case of rodent plague, Apr. 7, 1916.	
Total number of rodents captured to May 6.	705,672
Total number of rodents examined to May 6.....	351,765
Total cases of rodent plague to May 6, by species:	
Mus musculus.....	6
Mus rattus.....	18
Mus alexandrinus.....	13
Mus norvegicus.....	250
Total rodent cases to May 6, 1916.....	287

WASHINGTON—SEATTLE—PLAGUE ERADICATION.

The following report of plague-eradication work at Seattle for the week ended April 29, 1916, was received from Surg. Lloyd, of the United States Public Health Service, in charge of the work:

RAT PROOFING.

New buildings inspected.....	53
New buildings reinspected.....	17
Basements concreted, new buildings (square feet, 11,250).....	10
Floors concreted, new buildings (square feet, 9,170).....	7
Yards, etc., concreted, new buildings (square feet, 4,160).....	5
Sidewalks concreted (square feet).....	14,175
Total concrete laid, new structures (square feet).....	38,755
New buildings elevated.....	4
New premises rat proofed, concrete.....	17
Old buildings inspected.....	5
Premises rat proofed, concrete, old buildings.....	3
Floors concreted, old buildings (square feet, 5,750).....	3
Wooden floors removed, old buildings.....	3
Buildings razed.....	3

LABORATORY AND RODENT OPERATIONS.

Dead rodents received.....	10
Rodents trapped and killed.....	316
Rodents recovered after fumigation.....	95
Total.....	421
Rodents examined for plague infection.....	269
Rodents proven plague infected.....	None.
Poison distributed (pounds).....	20
Bodies examined for plague infection.....	5
Bodies found plague infected.....	None.

CLASSIFICATION OF RODENTS.

Mus rattus.....	78
Mus alexandrinus.....	94
Mus norvegicus.....	183
Mus musculus.....	64
Gopher.....	1
Mountain beaver.....	1

WATER FRONT.

Vessels inspected and histories recorded....	17
Vessels fumigated.....	2

WATER FRONT—continued.

Sulphur used, pounds.....	2,000
New rat guards installed.....	16
Defective rat guards repaired.....	22
Fumigation certificates issued.....	2
Port sanitary statements issued.....	46
The usual day and night patrol was maintained to enforce rat guarding and fending.	

MISCELLANEOUS WORK.

Rat-proofing notices sent to contractors, new buildings.....	14
Letters sent in re rat complaints.....	8
Inspection of medicine chests, fishing vessels.....	9

RODENTS EXAMINED IN EVERETT.

Mus norvegicus trapped.....	56
Mus norvegicus found dead.....	1
Mus musculus trapped.....	5
Total.....	62
Rodents examined for plague infection.....	58
Rodents proven plague infected.....	None.

RAT-PROOFING OPERATIONS IN EVERETT.

New buildings inspected.....	5
New buildings, concrete foundations.....	3
New buildings elevated 18 inches.....	2
New buildings, floors concreted (square feet, 13,340).....	2
New buildings, yards concreted (square feet, 560).....	1
Total concrete laid, new buildings (square feet).....	13,900
Old buildings, plank yards removed.....	3
Old buildings, yards concreted (square feet, 1,526).....	3

RODENTS EXAMINED IN TACOMA.

Mus norvegicus trapped.....	68
Mus norvegicus found dead.....	13
Mus rattus trapped.....	2
Mus alexandrinus trapped.....	2
Total.....	85
Rodents examined for plague infection.....	85
Rodents proven plague infected.....	None.

¹ Indicates the number of rodents the tissues of which were inoculated into guinea pigs. Most of them showed on necropsy only evidence of recent inflammatory process; practically none presented gross lesions characteristic of plague infection.

HAWAII—PLAGUE PREVENTION.

The following reports of plague-prevention work in Hawaii were received from Surg. Trotter, of the United States Public Health Service:

Honolulu.

WEEK ENDED APR. 22, 1916.

Total rats and mongoose taken.....	407	Classification of rats killed by sulphur dioxide:	
Rats trapped.....	403	<i>Mus norvegicus</i>	1
Mongoose taken.....	3	Average number of traps set daily.....	984
Rats killed by sulphur dioxide.....	1	Cost per rat destroyed.....	19½ cts.
Rats found dead.....	1	Last case rat plague, Aiea, 9 miles from Honolulu,	
Examined macroscopically.....	353	Apr. 12, 1910.	
Showing plague infection.....	None.	Last case human plague, Honolulu, July 12, 1910.	
Classification of rats trapped:		Last case rat plague, Paauhau, Hawaii, Jan. 18, 1916.	
<i>Mus alexandrinus</i>	153	Last case human plague, Paauhau Plantation,	
<i>Mus musculus</i>	124	Hawaii, Dec. 16, 1915.	
<i>Mus norvegicus</i>	97		
<i>Mus rattus</i>	29		

Hilo.

WEEK ENDED APR. 15, 1916.

Rats and mongoose taken.....	2,529	Classification of rats trapped and found	
Rats trapped.....	2,478	dead—Continued.	
Rats found dead.....	3	<i>Mus rattus</i>	721
Mongoose taken.....	248	<i>Mus musculus</i>	987
Rats and mongoose examined microscopically.....	2,529	Last case of rat plague, Paauhau Sugar Co., Jan. 18,	
Rats and mongoose plague infected.....	None.	1916.	
Classification of rats trapped and found dead:		Last case of human plague, Paauhau Sugar Co.,	
<i>Mus norvegicus</i>	411	Dec. 16, 1915.	
<i>Mus alexandrinus</i>	362		